

Attorney's Docket No.: 14580-040001

Amendment to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application.:

1. (Currently amended) An LED array comprising:

a plurality of LEDs, each with a first and second terminal, wherein the plurality of LEDs are arranged in a plurality of columns of LEDs having their first terminals electrically connected and a plurality of rows of LEDs having their second terminals electrically connected;

a plurality of column select switches, each column select switch being coupled to a column of the LEDs;

a plurality of column control input terminals for receiving column control input signals, a column control input terminal being coupled to n of the column select switches, where n is at least two, for selectively activating the column select switches when an active column control input signal is provided

a plurality of column decoding switches, each column decoding switch attached to a plurality of column select switches for selectively coupling a column reference voltage through the column select switches to the columns of LEDs when both the column decoding switches and column select switches are activated;

a configcol input terminal for receiving configcol input signals coupled to n column decoding switches of the plurality

Attorney's Docket No.: 14580-040001

of column decoding switches, the configcol input signals having n states causing the nth column decoding switch to be activated when the configcol input signal is in the nth state;

the column decoding switches activated sequentially and for each activated column decoding switch the corresponding plurality of column select switches activated sequentially to provide the column reference voltage sequentially to the columns of LEDs; and

the LEDs in the array lit by providing a row reference voltage to the rows having LEDs to be lit when a column is coupled to the column reference voltage.

2. (Currently amended) The LED array of claim 1 ~~further comprising wherein~~ :

~~a plurality of column control input terminals for receiving column control input signals, a column control input terminal being~~is coupled to two of the column select switches;~~for selectively activating the column select switches when an active column control input signal is provided; and~~

~~at the configcol input terminal for receiving configcol input signals is~~ coupled to first and second column decoding switches of the plurality of column decoding switches, the configcol input signals having a first or second state causing the first column decoding switch to be activated when the

Attorney's Docket No.: 14580-040001

configcol input signal is in the first state and the second column decoding switch to be activated when the configcol input signal is in the second state.

3. (Original) The LED array of claim 2 wherein:

each of the column select switches comprises a transistor;

the first column decoding switch comprises a pnp transistor; and

the second column decoding switch comprises an npn transistor.

4. (Original) The LED array of claim 1 further comprising:

a plurality of row select switches, each row select switch being coupled to a row of LEDs;

a plurality of row decoding switches, each row decoding switch attached to a plurality of row select switches for selectively coupling the row reference voltage through the row select switches to the rows of LEDs when both the row decoding switches and row select switches are activated; and

the row decoding switches activated sequentially and for each activated row decoding switch the corresponding plurality of row select switches activated sequentially to

Attorney's Docket No.: 14580-040001

provide the row reference voltage sequentially to the rows having LEDs to be lit.

5. (Currently amended) The LED array of claim 4 further comprising:

a plurality of row control input terminals for receiving row control input signals, a row control input terminal being coupled to ~~twom~~ of the row select switches, where m is at least two, for selectively activating the row select switches when an active row control input signal is provided; and

a configrow input terminal for receiving configrow input signals coupled to ~~first and second~~ m row decoding switches of the plurality of ~~column~~ row decoding switches, the configrow input signals having a ~~first or second~~ m states causing the ~~first~~ mth row decoding switch to be activated when the configrow input signal is in the ~~first~~ mth state and the second row decoding switch to be activated when the configrow input signal is in the second state.

6. (Original) The LED array of claim 1 further comprising:

a plurality of column control input terminals arranged in unique pairs, one of the column control input terminals in a

Attorney's Docket No.: 14580-040001

unique pair coupled to a column select switch and the other column control input terminal coupled to a column decoding switch; and

an active signal provided at a unique pair of the plurality of column control input terminals coupling one of the columns in the LED array to the column reference voltage by activating the column select switch and column decoding switch associated with the column.

7. (Canceled)

8. (New) The LED array of claim 5 wherein a row control input terminal is coupled to two of the row select switches; and

the configrow input terminal is coupled to first and second row decoding switches of the plurality of row decoding switches, the configrow input signals having a first or second state causing the first row decoding switch to be activated when the configrow input signal is in the first state and the second row decoding switch to be activated when the configrow input signal is in the second state.